



業績目録(濱島高太郎)

著者	東北大学史料館
号	1188
発行年	2012-03
URL	http://hdl.handle.net/10097/62908

濱島高太郎教授業績目録

平成 24 年 3 月
東北大学史料館
(著作目録第 1188 号)



濱 島 高太郎 教 授 略 歴

生年月日	昭和23年 2 月 7 日
本 籍 地	神奈川県
職 名	教授
所 属	工学研究科 電気・通信工学専攻

最終学歴

昭和45年 3 月	東京工業大学理学部電子工学科卒業
昭和48年 3 月	東京工業大学大学院理工学研究科原子核工学専攻修士課程修了
昭和52年12月	東京工業大学大学院理工学研究科電気工学専攻博士課程修了

職 歴

昭和52年 4 月	株式会社東芝 重電技術研究所
平成11年 4 月	山口大学工学部教授
平成15年10月	東北大学大学院工学研究科教授
平成24年 3 月	東北大学を定年退職
平成20年 4 月－平成22年 3 月	核融合科学研究所 客員教授
平成22年 4 月－平成23年 3 月	名古屋大学 非常勤講師

学 位

昭和52年12月	工学博士（東京工業大学）
----------	--------------

受賞

昭和60年 5月 低温工学会 大山記念論文賞
平成12年 5月 電気学会学術振興賞 論文賞

学会等における活動（役職等）

低温工学超電導学会 東北・北海道支部長（平成20年～21年）
電気学会超電導応用電力機器技術委員会 委員長（平成18年～23年）
電気学会 東北支部 協議員（平成18年～19年）
電気学会 日本技術者教育認定部会 部会長（平成19～21年）
IEEE Applied Superconductivity Conference Program Editor（平成18～21年）
International Symposium on Superconductivity プログラム委員（平成18～23年）

社会における活動

日本学術振興会 科学研究費委員会専門委員（平成15～16年）
核融合科学研究所 運営会議共同研究委員会（平成19～22年）
日本学術振興会 科学研究費委員会審査委員（平成21～23年）
核融合科学研究所 外部評価委員（平成21～22年）
新エネルギー・産業技術総合開発機構 開発研究評価委員会事後評価分科会長
（平成21～22年）
新エネルギー・産業技術総合開発機構 超電導技術委員会委員（平成21～23年）
新エネルギー・産業技術総合開発機構 希少金属代替材料開発採択審査委員会委員長
（平成21～22年）

業 績 目 録

Ⅰ. 著書・編書（共著書等含む）

1. 電磁気学

濱島高太郎，梶谷剛，塚田啓二，杉本秀彦，2007年2月，実教出版

Ⅱ. 調査報告書（科研費報告書など）

1. 大型超伝導導体における長時定数交流損失発生メカニズムの解明と対策
（科研費報告書）

濱島高太郎，平成15年

2. 大型超伝導導体に発生する不規則な交流損失の原因究明（科研費報告書）

濱島高太郎，平成18年

3. 大型超伝導導体の素線配置分布に基づく不規則結合損失の定量的解明
（科研費報告書）

濱島高太郎，平成23年

Ⅲ. 研究論文（学術誌）

1. 入沢寿逸，濱島高太郎，重田憲之，妹尾義文，林泉，「多孔式コイルを用いたトロイダルピンチプラズマの研究」電気学会誌論文 A,98巻,2号,pp.70-76,1978

2. 濱島高太郎，入沢寿逸，塚田徳明，杉戸収，丸山英明，林泉，「トロイダルピンチプラズマにおけるキンク不安定性の軸方向波数」電気学会論文誌 A,99巻,3号,pp.113-120,1979

3. N. Miki, T.Hamajima, Y.Tanabe, S.Mine, M.Yamaguchi and S.Sawada, "Structure Analysis of Superconducting Toroidal Field Coils for a Tokamak Fusion Experimental Reactor," IEEE Transaction on Magnetics, Vol. MAG-17, No.5, pp.2109-2112, 1981

4. Y. Gomay, T. Hamajima, T. Honda, K. Kitamura, T. Munakata, T. Uchida, M. Yamaguchi, H. Yamato, K. Sako and H. Iida, "Maintenance Method for Tokamak Fusion Reactors with Downward Access to Torus Inboard Structures," Journal of Nuclear Science and Technology, 18[6], pp.449-460, 1981

5. 伊藤大佐, 小泉操, 浜島高太郎, 中根麓, 「安定化材の配置と複合多芯超電導線の結合損失」低温工学会誌, Vol.18, No4, pp.212-219, 1983
6. Y.Wachi, A.Miura, T.Hamajima, T.Uchida, M.Yamaguchi, H.Ohguma, S.Murase, H.Shirase and T.Fujioka, "Development of a Forced-cooling D-Shaped Superconducting Coil by Supercritical Helium," IEEE Transaction on Magnetics, Vol. MAG-19, No.3, pp.320-323, 1983
7. D.Itoh, M.Koizumi, T.Hamajima and F.Nakane, "The influence of filament bundle location on coupling losses in superconducting composites, Part I : mixed matrix conductor," Cryogenics, Vol.23, No.12, pp.643-648, 1983
8. 白木八男, 村瀬暁, 大熊啓嗣, 浜島高太郎, 青木伸夫, 市原政光, 「強制冷却 Nb₃Sn 導体の歪効果」低温工学会誌, Vol.19, No3, pp.225-231, 1984
(英訳 : H.Shiraki, S.Murase, H.Ohguma, T.Hamajima, N.Aoki, M.Ichihara, "Strain effects of cable-in-conduit Nb₃Sn conductors," Cryogenics, Vol.25, No.1, Jan. 1985, p13)
9. Y.Shibutani, M.Naganuma, M.Shibui, T.Hamajima, T.Fujioka, Y.Sawada, S.Shimamoto, M.Nishi, H.Nakajima, T.Ando and H.Tsuji, "Cyclic Internal Pressure Tests of a Forced-cooled Cable-in-conduit Superconductor for a Fusion Application," IEEE Transaction on Magnetics, Vol.24, No.2, pp.1149-1152, 1988
10. T.Hamajima, A.Tanaka, H.Shiraki, M.Shibui, Y.Sanada, M.Naganuma, M.Shimada, T.Fujioka, M.Nishi, H.Nakajima, K.Koizumi, Y.Takahashi, T.Ando, H.Tsuji and S.Shimamoto, "Development of a Forced-cooled Superconducting Coil with High Average Current Density(DPC-TJ)," IEEE Transaction on Magnetics, Vol.25, No.2, pp.1721-1724, 1989
11. Y.Wachi, M.Shimada, K.Nakamoto, M.Shibui, T.Hamajima, S.Ioka, O.Motojima, J.Yamamoto and M.Takeo, "Development of Forced-Cooled Superconducting Coil for Large Helical Device," IEEE Transaction on Magnetics, Vol.27, No2, pp.2228-2231, 1991
12. 嶋田守, 浜島高太郎, 山口貢, 「強制冷却超電導コイルの常電導転移」電気学会論文誌 B, 112巻, 2 号, pp.168-174, 1992
13. 西正孝, 安藤俊就, 辻博史, 向博志, 浜島高太郎, 藤岡勉, 「DPC-TJ 計画－核融合用高電流密度大型コイルの開発」低温工学会誌, Vol.27, No.3, pp.207-216, 1992 (英訳 : M.Nishi, T.Ando, H.Tsuji, H.Mukai, T.Hamajima and T.Fujioka, "Development of high current density, large superconducting coil for fusion machines: the DPC-TJ Program," Cryogenics, Vol.33, No.6, June, 1993, p573)

14. 青木伸夫, 大垣俊久, 野口一朗, 向博志, 嶋田守, 浜島高太郎, 中山茂雄, 藤岡勉, 高橋良和, 安藤俊就, 西正孝, 辻博史, 「DPC-TJ 用超電導導体の製作」低温工学会誌, Vol.27, No.3, pp.221-225, 1992
(英訳: N.Aoki, T.Ogaki, K.Noguchi, H.Mukai, M.Shimada, T.Hamajima, S.Nakayama, T.Fujioka, Y.Takahashi, T.Ando, M.Nishi and H.Tsuji, "Fabrication of superconductor for the DPC-TJ coil," Cryogenics, Vol.33, No.6, June, 1993, p581)
15. Y.Wachi, M.Shimada, T.Hamajima and M.Yamaguchi, "Stability of a NbTi Forced-Cooled Superconducting Coil by Sub-cooled Supercritical Helium," IEEE Transaction on Magnetics, Vol.28, No1, pp.719-722, 1992
16. 岩渕明, 新井治彦, 清水友治, 能登宏七, 浜島高太郎, 小野通隆, 「液体ヘリウム中における Cr メッキ (NbTi)₃Sn 超電導線材のトライボロジー特性」低温工学会誌, Vol.28, No11, pp.626-631, 1993
17. M.Shimada, M.Ono, Y.Wachi, T.Hamajima and M.Yamaguchi, "Disturbance Energy of a Forced Flow Cooled Superconducting Coil," IEEE Transaction on Applied Superconductivity, Vol.3, No.1, pp.226-229, 1993
18. M.Ono, Y.Wachi, M.Shimada, Y.Sanada, H.Mukai, T.Hamajima, T.Fujioka, M.Nishi, H.Tuji, T.Ando, T.Hiyama, Y.Takahashi, K.Yoshida, K.Okuno, T.Kato, H.Nakajima, K.Kawano, T.Isono, M.Sugimoto, N.Koizumi, K.Koizumi, E.Tada, F.Hosono, S.Iwamoto, T.Sasaki, H.Hiue, H.Ishida, A.Miyake, Y.Kamiyauchi, H.Ebisu, J.R.Armstrong, M.Oshikiri, H.Hanawa, H.Ohuchi, F.Tajiri, M.Sekine, T.Ohuchi, J.Okayama, Y.Takaya, Y.Kon and S.Shimamoto, "Charging Test Results of the DPC-TJ, a High-Current Density Large Superconducting Coil for Fusion Machines," IEEE Transaction on Applied Superconductivity, Vol.3, No.1, pp.480-483, 1993
19. T.Sasaki, N.Koizumi, M.Nishi, K.Okuno, K.Yoshida, H.Tuji, H.Mukai, Y.Wachi, T.Hamajima, S.Nakayama and T.Fujioka, "Stability Performance of the DPC-TJ, Nb₃Sn Cable-in-conduit Large Superconducting Coil," IEEE Transaction on Applied Superconductivity, Vol.3, No.1, pp.523-526, 1993
20. 嶋田守, 小野通隆, 和智良裕, 浜島高太郎, 山口貢, 「強制冷却超電導コイルにおける高速な常電導伝播」電気学会論文誌 D, 114巻, 10号, pp.1018-1025, 1994
21. 小野通隆, 和智良裕, 嶋田守, 塙伸一, 浜島高太郎, 山口貢, 山本恵一, 藤岡勉, 「超電導熱線導体の電流偏流現象と安定性」電気学会論文誌 B, 114巻, 12号, pp.1277-1283, 1994

22. 和智良裕, 小野通隆, 嶋田守, 塙伸一, 浜島高太郎, 高野広久, 篠原裕文, 本島修, 山本純也, 佐藤隆, 高畑一也, 「4.2K 以下の運転温度での CIC 導体の安定性」低温工学会誌, Vol.29, No.3, pp.106-115, 1994
23. 嶋田守, 小野通隆, 和智良裕, 浜島高太郎, 山口貢, 石山敦士, 「強制冷却超電導コイルにおける安定性劣化と常電導伝播特性」低温工学会誌, Vol.29, No.9, pp.470-476, 1994
24. Y.Wachi, S.Hanawa, M.Ono, M.Shimada, T.Hamajima, H.Takano, H.Shinohara, K.Takahata, J.Yamamoto, O.Motojima, "Stability Characteristics of a Cable-in-Conduit Conductor by Sub-cooled Supercritical Helium," IEEE Transaction on Magnetics, Vol.30, No.4, pp.1899-1902, 1994
25. K.Inoue, T.Tokumasu, K.Nakanishi, T.Hamajima, K.Ito, S.Ohshima, "Study on the Coil for Quick Response Superconducting Generator," IEEE Transaction on Magnetics, Vol.30, No.4, pp.2403-2406, 1994
26. M.Arata, T.Hamajima, O.Ohsaki, T.Hirumachi, "Internal Stress Influence on High Current Density Superconducting Magnet Performance," IEEE Transaction on Applied Superconductivity, Vol.5, No.2, pp.365-368, 1995
27. M.Ono, Y.Wachi, T.Hamajima, Y.Sawada, K.Yamamoto and T.Fujioka, "Estimation Method of Stability for Multi-strand Superconducting Cables under Partial Current Distribution," IEEE Transaction on Applied Superconductivity, Vol.5, No.2, pp.564-567, 1995
28. Y.Wachi, M.Ono and T.Hamajima, "Heat Transfer Characteristics of the Supercritical Helium in a Cable-in-conduit Conductor," IEEE Transaction on Applied Superconductivity, Vol.5, No.2, pp.568-571, 1995
29. 小野通隆, 浜島高太郎, 山口貢, 藤岡勉, 沢田芳夫, 澤孝一郎, 「電流再配分を伴う CIC 型超電導撚線導体の安定性評価法」低温工学会誌, Vol.31, No.10, pp.518-525, 1996
30. M.Ono, S.Hanawa, Y.Wachi, T.Hamajima and M.Yamaguchi, "Influence of coupling current among superconducting strands on stability of Cable-in-Conduit Conductor," IEEE Transaction on Magnetics, Vol. 32, No 4, pp.2842-2845, 1996
31. M.Arata, T.Hamajima, O.Ohsaki and S.Hanawa, "Radial Stress Influence on High Current Density Superconducting Magnet Performance with Large and Small Bore," IEEE Transaction on Magnetics, Vol. 32, No 4, pp.3109-3112, 1996

32. Y.Wachi, M.Ono, S.Hanawa, T.Hamajima, J.Yamamoto and O.Motojima, "Effect of insulation on stability of cable-in-conduit type forced-cooled superconducting coils," *Cryogenics*, Vol.36, No.3, pp.155-158, 1996
33. M.Ono, T.Hamajima, T.Fujioka, T.Ito, N.Koizumi, T.Ando and H.Tsuji, "Electrical circuit models among superconducting strands in real-scale CICC," *IEEE Transaction on Applied Superconductivity*, Vol.7, No.2, pp.215-218, 1997
34. M.Ono, M.Arata, T.Hamajima, H.Maeda, H.Takano and T.Fujioka, "The Relation between Transverse Mechanical and Electrical Properties of the Multi-twisted Stage Cables of CICC," *IEEE Transaction on Applied Superconductivity*, Vol.7, No.2, pp.808-812, 1997
35. M.Arata, K.Kawai, T.Yamashita, M.Fujita, T.Hamajima, Y.Sanada, A.Miura, M.Yamaguchi and M.Yamaji, "Eddy Current Loss Reduction of Superconducting Magnets for MAGLEV with a Multilayer Superconducting Sheet," *IEEE Transaction on Applied Superconductivity*, Vol.7, No.2, pp.912-915, 1997
36. N. Koizumi, Y. Takahashi, M. Nishi, T. Isono, H. Tsuji, M. Ono, T. Hamajima and T. Fujioka, "Ramp-Rate limitation due to current imbalance in a large cable-in-conduit conductor consisting of chrome-plated strands," *Cryogenics*, Vol.37, No.8, pp.441-452, 1997
37. 佐藤義久, 京藤誠, 近藤潤次, 花井哲, 嶋田隆一, 浜島高太郎, 「超電導磁気エネルギー貯蔵用電磁力平衡コイルの実験」*電気学会論文誌 D*, 118巻, 3号, pp402-409, 1998
(英訳: Y. Sato, J. Kondoh, R. Shimada, M. Kyouto, S. Hanai and T. Hamajima, "Experiment of force-balanced coil for magnetic energy storage," *Electrical Engineering in Japan*, Vol.128, No.3, pp82-91, 1999, Scripta Technica)
38. 花井哲, 中本一成, 高橋信次, 高野広久, 手塚勝, 浜島高太郎, 篠田公之, 峯村徹, 姫野隆, 高野一郎, 佐藤隆, 「SMES モデルコイルー製作ー」*低温工学会誌*, Vol.33, No.7, pp.460-466, 1998
39. 濱田一弥, 加藤崇, 河野勝巳, 本田忠明, 種田雅信, 関口修一, 今橋浩一, 大都起一, 田尻二三男, 大内猛, 岡山順一, 高矢芳幸, 川崎勉, 磯野高明, 檜山忠雄, 辻博史, 和智良裕, 宮瀬敏浩, 花井哲, 和田司, 浜島高太郎, 篠田公之, 峯村徹, 姫野隆, 高野一郎, 佐藤隆, 「SMES モデルコイルー初期冷凍・熱特性ー」*低温工学会誌*, Vol.33, No.7, pp.467-472, 1998

40. 磯野高明, 布谷嘉彦, 濱田一弥, 松井邦浩, 杉本誠, 小泉徳潔, 伊藤智庸, 種田雅信, 渡辺郁雄, 野澤正信, 寺沢充水, 東克典, 石尾光太郎, 堤史郎, 塙博美, 押切雅幸, 関秀一, 若林宏, 高野克敏, 宇野康弘, 加藤崇, 中嶋秀夫, 高橋良和, 安藤俊就, 辻博史, 浜島高太郎, 小野通隆, 中本一成, 花井哲, 和智良裕, 篠田公之, 峯村徹, 佐藤博道, 藤林和夫, 姫野隆, 高野一郎, 佐藤隆, 「SMES モデルコイルー直流通電特性ー」低温工学会誌, Vol.33, No.7, pp.473-478, 1998
41. 和智良裕, 花井哲, 河合正道, 小野通隆, 平岸政洋, 浜島高太郎, 石尾光太郎, 中嶋秀夫, 辻博史, 篠田公之, 峯村徹, 姫野隆, 高野一郎, 佐藤隆, 「SMES モデルコイルー機械的特性ー」低温工学会誌, Vol.33, No.7, pp.479-484, 1998
42. 伊藤智庸, 花井哲, 和智良裕, 小野通隆, 中本一成, 浜島高太郎, 東克典, 小泉徳潔, 安藤俊就, 辻博史, 篠田公之, 峯村徹, 姫野隆, 高野一郎, 佐藤隆, 「SMES モデルコイルー安定性ー」低温工学会誌, Vol.33, No.7, pp.485-491, 1998
43. 浜島高太郎, 嶋田守, 小野通隆, 瀧上浩幸, 花井哲, 和智良裕, 高橋良和, 松井邦浩, 伊藤智庸, 磯野高明, 辻博史, 篠田公之, 峯村徹, 姫野隆, 高野一郎, 佐藤隆, 「SMES モデルコイルーパルス通電特性ー」低温工学会誌, Vol.33, No.7, pp.492-499, 1998
(英訳: T. Hamajima, M. Shimada, M. Ono, H. Takigami, S. Hanai, Y. Wachi, Y. Takahashi, K. Matsui, S. Ito, T. Isono, H. Tsuji, K. Shinoda, T. Minemura, T. Himeno, I. Takano, T. Satow, "Test results of the SMES model coil ? pulse performance," Cryogenics 39 (1999) 351-357)
44. 佐藤義久, 大崎朋也, 野村新一, 近藤潤次, 浜島高太郎, 嶋田隆一, 「超電導エネルギー貯蔵装置用電磁石の巻線方式の比較検討」電気学会論文誌 D, 118巻, 10号, pp.1157-1164, 1998
45. 浜島高太郎, 嶋田守, 花井哲, 和智良裕, 手塚勝, 高野広久, 「SMES コイル配置の漏洩磁界」低温工学会誌, Vol.33, No.12, pp.773-781, 1998
46. M. Sugimoto, T. Isono, K. Yoshida, H. Tsuji, I. Takano, T. Hamajima, K. Shinoda and T. Satow, "An evaluation of the inlet flow reduction for a cable-in-conduit conductor in pulsed operation," Cryogenics, Vol. 38, No. 10, pp989-994, 1998
47. T. Hamajima, K. Kitamura, M. Sakai and T. Satow, "Specifications and performance experiences of internally cooled small-scale SMES," Cryogenics, Vol. 38, No. 11, pp1135-1143, 1998

48. 浜島高太郎, 花井哲, 和智良裕, 京藤誠, 嶋田守, 小野通隆, 島田一人, 櫛田ルナ, 手塚勝, N. Martovetsky, J. Zbasnik, J. Moller, 平野直樹, 篠田公之, 山本政弘, 高野一郎, 姫野隆, 佐藤隆, 「100 kWh SMES モデルコイルー交流損失ー」低温工学会誌, Vol. 34, No. 6, pp286-292, 1999
(英訳: T. Hamajima, S. Hanai, Y. Wachi, M. Kyoto, M. Shimada, M. Ono, K. Shimada, L. Kushida, M. Tezuka, N. Martovetsky, J. Zbasnik, J. Moller, N. Hirano, K. Shinoda, M. Yamamoto, I. Takano, T. Himeno and T. Satow, "Test results of the 100kWh SMES model coil ? AC loss performance," Cryogenics 39 (1999) 947-953)
49. T. Hamajima, M. Shimada, S. Hanai, Y. Wachi, M. Tezuka and H. Takano, "SMES Coil Configurations with Reduced Stray Field," IEEE Transactions on Applied Superconductivity, Vol.9, No2, pp346-349, 1999
50. 佐藤義久, 大崎朋也, 野村新一, 近藤潤次, 浜島高太郎, 嶋田隆一, 「超電導エネルギー貯蔵装置用電磁力平衡コイルの最適化」電気学会論文誌 D, 120 巻, 1号, pp.112-119, 2000
51. Y. Wachi, S. Hanai, M. Kyoto, K. Shimada, T. Hamajima, K. Fujibayashi, H. Sato, M. Yamamoto, I. Takano, T. Himeno and T. Satow, "Development of the mass flow quench detection system for the 100kWh SMES forced-flow model coil," IEEE Transactions on Applied Superconductivity, Vol.10, No.1, 800-803, 2000
52. S. Hanai, Y. Wachi, M. Shimada, M. Ono, M. Tezuka, T. Hamajima, N. Martovetsky, J. Zbasnik, R. Manahan, J. Moller, K. Ishio, T. Isono, H. Tsuji, M. Yamamoto, I. Takano, T. Himeno, K. Shinoda and T. Satow, "Cyclic and mechanical test results of the 100kWh SMES model coil," IEEE Transactions on Applied Superconductivity, Vol.10, No.1, 808-811, 2000
53. T. Hamajima, S. Hanai, Y. Wachi, M. Kyoto, M. Shimada, M. Ono, K. Shimada, L. Kushida, M. Tezuka, N. Martovetsky, J. Zbasnik, J. Moller, Y. Takahashi, K. Matsui, T. Isono, M. Yamamoto, I. Takano, T. Himeno, N. Hirano, K. Shinoda and T. Satow, "AC loss performance of the 100kWh SMES model coil," IEEE Transactions on Applied Superconductivity, Vol.10, No.1, 812-815, 2000
54. N. Harada, T. Hamajima, K. Nakagawa, G. Iwaki, O. Miura and K. Watanabe, "Superconducting properties with high-field peak effect in Ohmically heated Jelly-rolled Nb3Al wire," IEEE Transactions on Applied Superconductivity, Vol.10, No.1, 1030-1033, 2000

55. 浜島高太郎, A. K. M. Alamgir, 原田直幸, 津田理, 小野通隆, 高野広久, 「超電導導体内の電流分布解析」低温工学会誌, Vol.35, No.4, pp.176-183, 2000
(英訳: Takataro Hamajima, A.K.M. Alamgir, Naoyuki Harada, Makoto Tsuda, Michitaka Ono, Hirohisa Takano, "Analysis of current distribution in a large superconductor," Cryogenics 40 (2000) 729-736)
56. A. K. M. Alamgir, 伊藤康隆, 原田直幸, 津田理, 浜島高太郎, 小野通隆, 高野広久, 「同軸多層撚り超電導導体の均一電流分布に関する実験」低温工学会誌, Vol.36, No.1, pp.10-15, 2001
57. T. Hamajima, M. Yoshida, H. Shimamura, N. Harada, M. Tsuda, S. Hanai, T. Satow, "A mechanism causing an additional AC loss in a large CICC Coil," IEEE Transactions on Applied Superconductivity, Vol.11, No.1, 1860-1863, 2001
58. M. Tsuda, A.K.M. Alamgir, Y. Ito, N. Harada, T. Hamajima, M. Ono, H. Takano, "Homogeneous current distribution in a coaxial superconductor with and without return current path," IEEE Transactions on Applied Superconductivity, Vol.11, No.1, 2481-2484, 2001
59. N. Harada, T. Nakano, M. Tsuda, T. Hamajima, F. Butta, E. Lee, M. D. Sumption, E. W. Collings, K. Tagawa, H. Morita, T. Takeuchi, H. Wada, K. Watanabe, "Superconducting properties and rapid heating condition in transformed Jerry-roll Nb3Al multifilamentary wires as a function of maximum ohmic-heating temperature," IEEE Transactions on Applied Superconductivity, Vol.11, No.1, 3611-3614, 2001
60. Hiroshi Yamada, Naoyuki Harada, Tadashi Iwamoto, Makoto Tsuda, Takataro Hamajima, "Periodic micro-size flux pinning centers on Superconducting Nb films by lithographic techniques," IEEE Transactions on Applied Superconductivity, Vol.11, No.1, 3816-3819, 2001
61. 山田博, 原田直幸, 岩本忠司, 津田理, 浜島高太郎, 「リソグラフィーにより Nb 薄膜に導入した周期的な人工ピンニングセンターの効果」低温工学会誌, Vol.36, No.8, pp.486-492, 2001
62. 浜島高太郎, 吉田基延, 島村浩史, 原田直幸, 津田理, 高畑一也, 佐藤隆, 「大型超電導コイルにおける長時定数不規則交流損失」電気学会論文誌 B, 121 巻, 10号, pp.1270-1275, 2001
(英訳: Takataro Hamajima, Motonobu Yoshida, Hiroshi Shimamura, Naoyuki Harada, Makoto Tsuda, Kazuya Takahata and Takashi Satow, "Long time constants of Irregular AC Losses in a Large Superconducting Coil," Electrical Engineering in Japan, Vol.143, No.1, pp50-57, 2003, Wiley Periodicals Inc.)

63. 浜島高太郎, 佐藤公泰, 山田博, 原田直幸, 津田理, 堤克哉, 林秀美, 江崎忠男, 「SMES コイル配置の漏洩磁界に関する蓄積エネルギーと最大磁界の比例則」 低温工学会誌, Vol.37, No.5, pp.202-207, 2002
64. 山田博, 原田直幸, A. K. M. Alamgir, 津田理, 浜島高太郎, 「部分溶融状態における Bi 系2223超電導相の作製」 電気学会論文誌 A, 122巻, 6号, pp.604-609, 2002
65. N. Harada, T. Nakano, M. Tsuda, T. Hamajima, F. Butta, E. Lee, M. D. Sumption, E. W. Collings, K. Tagawa, H. Morita, T. Takeuchi, H. Wada and K. Watanabe, "Influence of rapid heating condition on superconducting properties in transformed Jelly-Roll Nb3Al multifilamentary wire," IEEE Transactions on Applied Superconductivity, Vol.12, No.1, 1033-1036, 2002
66. Hiroshi Yamada, Naoyuki Harada, Tadashi Iwamoto, Keigo Sugai, Makoto Tsuda and Takataro Hamajima, "Periodic artificial pinning centers for high critical current density of tape conductor," IEEE Transactions on Applied Superconductivity, Vol.12, No.1, 1113-1116, 2002
67. Takataro Hamajima, Naoyuki Harada, Takashi Satow, Hiroshi Shimamura, Kazuya Takahata and Makoto Tsuda, "Long time constants of irregular AC coupling losses in a Large superconducting coil," IEEE Transactions on Applied Superconductivity, Vol.12, No.1, 1616-1619, 2002
68. M. Tsuda, A.K.M. Alamgir, Y. Ito, T. Harano, N. Harada, T. Hamajima, M. Ono and H. Takano, "Influence of current distribution on conductor performance in coaxial multi-layer HTS conductor," IEEE Transactions on Applied Superconductivity, Vol.12, No.1, 1643-1646, 2002
69. 津田理, 土谷浩平, 原田直幸, 浜島高太郎「アクティブ磁気浮上システムにおける複数のバルク超電導体配置と浮上特性」 低温工学, 37(2002), 681-688
70. 金榮錫, 金相賢, 原野稔也, 津田理, 原田直幸, 浜島高太郎, 小野通隆, 高野広久, 「Flux flow 状態を考慮した同軸多層高温超電導ケーブルの電流分布波形」 低温工学会誌, Vol.38, No.2, pp.54-61, 2003
(英訳: Youngseok Kim, Sanghyun Kim, Toshiya Harano, Makoto Tsuda, Naoyuki Harada, Takataro Hamajima, Michitaka Ono, Hirohisa Takano, "Layer-current waveform of coaxial multi-layer HTS cable considering the flux flow state," Cryogenics 44 (2004) 37-43)

71. 浜島高太郎, 原田直幸, 津田理, 矢沢孝, 栗山透, 「多重 HTS テープ導体の電流分布解析」低温工学会誌, Vol.38, No.6, pp.270-277, 2003
(英訳: Takataro Hamajima, Naoyuki Harada, Makoto Tsuda, Takashi Yazawa, Toru Kuriyama, "Analysis of current distributions in a multi-laminated HTS tape conductor for solenoid coils," Cryogenics 44 (2004) 341-348)
72. 浜島高太郎, 何継方, 原田直幸, 津田理, 矢沢孝, 栗山透, 「多重 HTS テープ導体の電流分布に関する実験」低温工学会誌, Vol.38, No.6, pp.278-284, 2003
(英訳: Takataro Hamajima, He Jifang, Naoyuki Harada, Makoto Tsuda, Takashi Yazawa, Toru Kuriyama, "Measurements of current distributions in a multi-laminated HTS tape conductor for solenoid coils," Cryogenics 44 (2004) 349-355)
73. 金榮錫, 郭東洵, 韓哲朱, 金相賢, 浜島高太郎, "The characteristics of Current Distribution and Electrical Insulation on High-Tc superconducting Cable," 大韓電気学会論文誌 (韓国), Trans. KIEE, Vol. 52B, No.6, pp.271-277, 2003
74. M. Tsuda, Y. Ito, T. Harano, Y. S. Kim, H. Yamada, N. Harada and T. Hamajima, "Dependence of Current Carrying Capacity and AC Loss on Current Distribution in Coaxial Multi-Layer HTS Conductor," IEEE Transactions on Applied Superconductivity, Vol.13, No.2, 1898-1901, 2003
75. M. Tsuda, M. Tamura, H. Yamada, N. Harada and T. Hamajima, "Lift-to-Weight Ratio Dependence of Lift and Stability in an Active-Maglev System," IEEE Transactions on Applied Superconductivity, Vol.13, No.2, 2138-2141, 2003
76. T. Hamajima, Y. Kakusho, K. Hoashi, M. Tsuda, N. Harada, H. Yamada, K. takahata and T. Satow, "Irregular AC Losses with Long Time Constants in Large Cable-in-Conduit conductor," IEEE Transactions on Applied Superconductivity, Vol.13, No.2, 2384-2387, 2003
77. N. Harada, H. Yamada, M. Tsuda, T. Hamajima, T. Takeuchi and H. Wada, "Optical Microstructure and Superconducting Properties in Jelly-Roll Nb3Al Multifilamentary Wire by Rapid Heating," IEEE Transactions on Applied Superconductivity, Vol.13, No.2, 3406-3409, 2003
78. N. Harada, H. Yamada, K. Sugai, I. Munechika, M. Tsuda and T. Hamajima, "Flux pinning property of artificial pinning center introduced by microfabrication," Physica C, Vol. 392-396, 1043-1047, 2003

79. M. Tsuda, J. Fujimoto, N. Harada and T. Hamajima, "AC Loss Reduction of Coaxial Multi-Layer HTS Cable," IEEE Transactions on Applied Superconductivity, Vol.14, No.2, 642-645, 2004
80. T. Hamajima, T. Yagai, N. Harada, M. Tsuda, H. Hayashi and T. Ezaki, "Scaling Law of Fringe Fields as Functions of Stored Energy and Maximum Magnetic Field for SMES Configurations," IEEE Transactions on Applied Superconductivity, Vol.14, No.2, 705-708, 2004
81. Kazuhiro Kajikawa, Kazuo Funaki, Hidemi Hayashi, Kanichi Terazono, Mitsuru Morita, Hosei Hirano, and Takataro Hamajima, "Numerical Study on Fundamental Properties of a Resistive Type Fault Current Limiter with QMG Bulk Superconductor Reinforced by Metal Bypass, IEEE Transactions on Applied Superconductivity, Vol.14, No.2, 847-850, 2004
82. Makoto Tsuda, Kohei Tsuchiya, Naoyuki Harada, and Takataro Hamajima, "Dependence of Lateral Stiffness on Magnetic Field Distribution at Field-Cooling Process of HTS Bulk System," IEEE Transactions on Applied Superconductivity, Vol.14, No.2, 948-951, 2004
83. 川越明史, 住吉文夫, 若松秀宗, 林秀美, 花井哲, 濱島高太郎, 「高温超伝導コイルの高性能化を目指す新しいケーブル・イン・コンジット型導体の開発」, 電気学会論文誌 B, 124巻, 10号, pp.1186-1192, 2004
84. M. Morita, H. Hirano, H. Hayashi, K. Terazono, K. Kajikawa, K. Funaki, T. Hamajima, "Fabrication transport properties of QMG current limiting elements," Physica C, Vol. 412-414, 750-755, 2004
85. Makoto Tsuda, Satoshi Nakamura, Shinichiro Katsuda, Naoyuki Harada, Takataro Hamajima, and Kazuya Takahata, "Dependence of Contact Condition Between Strands on Twist Pitch in CIC Conductor," IEEE Transactions on Applied Superconductivity, Vol.15, No.2, 1533-1536, 2005
86. T. Hamajima, T. Yagai, M. Tsuda, and N. Harada, "Current Distribution Analysis in Tri-Axial HTS Cable Considering Three Phases," IEEE Transactions on Applied Superconductivity, Vol.15, No.2, 1775-1778, 2005
87. Naoyuki Harada, Yuji Goto, Toshiro Yasuda, Makoto Tsuda, and Takataro Hamajima, "Microstructure and Properties of Groove-Shaped Artificial Pinning Centers Introduced by Microfabrication," IEEE Transactions on Applied Superconductivity, Vol.15, No.2, 3714-3717, 2005

88. 濱島高太郎, 津田理, 谷貝剛, 「三相同一軸超電導ケーブルの平衡電流解析」, 低温工学会誌, Vol.40, No.10, pp.425-432, 2005
89. H. Yamada, N. Harada, K. Kanayama, S. Nakagawa, H. Yamasaki, T. Hamajima, "Enhancement of transport critical current density of epitaxial Nb film by lithography," *Physica C* 433 (2005) 65-69
90. T. Yagai, H. Sato, M. Tsuda, T. Hamajima, Y. Nunoya, Y. Takahashi and K. Okuno, "Irregular Loops With Long Time Constants in CIC Conductor," *IEEE Transactions on Applied Superconductivity*, Vol.16, No.2, 835-838, 2006
91. T. Hamajima, T. Yagai and M. Tsuda, "Analysis of Balanced Three-Phase Current Distributions in a Tri-Axial Cable," *IEEE Transactions on Applied Superconductivity*, Vol.16, No.2, 1586-1589, 2006
92. M. Tsuda, T. Fujisawa, T. Hiraoka, N. Harada, T. Yagai and T. Hamajima, "The Effective Current and Magnetic Field Distributions for Reducing AC Losses in Coaxial Multi-Layer HTS Transmission Cable," *IEEE Transactions on Applied Superconductivity*, Vol.16, No.2, 1594-1597, 2006
93. T. Yagai, H. Sato, M. Tsuda, T. Hamajima, Y. Nunoya, Y. Takahashi and K. Okuno, "Coupling loss with long time constants due to large displacement of strands in a large CIC conductor," *Fusion Engineering and Design*, Vol.81, 2503-2507, 2006
94. T. Hamajima, M. Tsuda, T. Yagai, S. Monma, H. Satoh and K. Shimoyama, "Analysis of AC Losses in a Tri-Axial Supercinducting Cable," *IEEE Transactions on Applied Superconductivity*, Vol.17, No.2, 1692-1695, 2007
95. M. Tsuda, T. Kojima, T. Yagai and T. Hamajima, "Vibration Characteristics in Magnetic Levitation Type Seismic Isolation Device Composed of Multiple HTS Bulks and Permanent Magnets," *IEEE Transactions on Applied Superconductivity*, Vol.17, No.2, 2059-2062, 2007
96. T. Yagai, H. Sato, Y. Nara, M. Tsuda, T. Hamajima, Y. Nunoya, K. Okuno and K. Takahata, "Investigation of Irregular Strand Positions Causing Additional AC Losses in CIC Conductor," *IEEE Transactions on Applied Superconductivity*, Vol.17, No.2, 2470-2473, 2007
97. T. Nakayama, T. Yagai, M. Tsuda and T. Hamajima, "Stability analysis of high temperature superconducting coil in liquid hydrogen", *Physica C*, Vol.463-465, 1285-1288, 2007

98. 下山和貴, Nuri Ozcivan, 添田誠司, 胡南南, 尾上裕一, 谷貝剛, 津田理, 濱島高太郎「三相同一軸高温超電導ケーブルの特性試験」低温工学会誌, Vol.43, No.1, pp.23-27, 2008
(英訳: Kazuki Shimoyama, Nuri Ozcivan, Seiji Soeda, Nannan Hu, Yuichi Onoe, Tsuyoshi Yagai, Makoto Tsuda, Takataro Hamajima, "Experimental results of tri-axial HTS cable", Cryogenics, Volume 49, Issue 8, August 2009, Pages 398-401)
99. K. Niiyama, T Yagai, M. Tsuda and T. Hamajima, "Design of power control system using SMES and SVC for fusion power plant," Journal of Physics: Conference Series 97 (2008) 012271, pp1-6
100. T. Hamajima, M. Tsuda, T. Yagai, A. Nuri Ozcivan, K. Shimoyama, K. Aoyagi, S. Soeda, "AC Losses of a Tri-axial Superconducting Cable with Balanced Three-phase Current Distributions," Journal of Physics: Conference Series 97 (2008) 012253, pp1-6
101. M. Tsuda, T. Kawasaki, T. Yagai and T. Hamajima, "Improvement of Levitation Force Characteristics in Magnetic Levitation Type Seismic Isolation Device Composed of HTS Bulk and Permanent Magnet," Journal of Physics:Conference Series 97 (2008) 012104, pp1-6
102. K. Watanabe, S. Awaji, G. Nishijima, T. Hamajima, T. Kiyoshi, H. Kumakura, S. Hanai and M. Ono, "Case Study of a 20T- ϕ 400 mm Room Temperature Bore superconducting Outsert for a 45 T Hybrid Magnet", IEEE Transactions on Applied Superconductivity, Vol.18, No.2, 552-555, 2008
103. M. Tsuda, T. Kawasaki, T. Yagai and T. Hamajima, "Dependence of Horizontal Vibration Characteristics on Load Weight Distribution in Magnetic Levitation Type Seismic Isolation Device", IEEE Transactions on Applied Superconductivity, Vol.18, No.2, 832-835, 2008
104. T. Yagai, Y. Nara, J. Ohmura, M. Tsuda, T. Hamajima, Y. Nunoya, K. Okuno and K. Takahata, "Investigation of a Mechanism Forming Irregular Loops in Large CIC Conductor," IEEE Transactions on Applied Superconductivity, Vol.18, No.2, 1123-1126, 2008
105. A. N. Ozcivan, K. Shimoyama, S. Soeda, T. Yagai, M. Tsuda, T. Hamajima, "AC loss in a tri-axial HTS cable with balanced current distribution", Physica C, 468(2008)2033-2036

106. K. Niiyama, T. Yagai, M. Tsuda, T. Hamajima, "Optimization of hybrid power system composed of SMES and flywheel MG for large pulsed load", *Physica C*, 468(2008)2111-2114
107. Kazuo Watanabe, Gen Nishijima, Satoshi Awaji, Takataro Hamajima¹, Tsukasa Kiyoshi, Hiroaki Kumakura, Kei Koyanagi, Satoshi Hanai, and Michitaka Ono, "Compact Design of a 30 T Superconducting Magnet Incorporating YBa₂Cu₃O₇ Coated Conductor Tapes and Pre-reacted Nb₃Sn Strand Cables", *Applied Physics Express* 1 (2008) 101703-1~3
108. 濱島高太郎, オズジバン・ヌリ, 下山和貴, 添田誠司, 胡南南, 谷貝剛, 津田理, 「三相同一軸超電導ケーブルの平衡分布特性実験」, 電気学会論文誌 B, 128巻, 10号, pp.1278-1284, 2008
109. 中山知紀, 大友勝志, 谷貝剛, 津田理, 濱島高太郎, 「液体水素 - 超電導ハイブリッドエネルギー輸送システムの検討」, 低温工学, Vol.43, No.10, pp.417-422, 2008
110. A. Nuri Ozcivan, 添田誠司, 胡南南, 谷貝剛, 津田理, 濱島高太郎, 「三相同一軸高温超電導ケーブルの交流損失における撚りピッチ依存性に関する研究」, 低温工学, Vol.44, No.1, pp.38-44, 2009
(英訳: A.N. Ozcivan, S. Soeda, N. Hu, T. Yagai *, M. Tsuda, T. Hamajima, "Investigation on AC loss of a high temperature superconducting tri-axial cable depending on twist pitches", *Cryogenics*, Volume 49, pp. 714-718 (2009))
111. K. Watanabe, S. Awaji, G. Nishijima, T. Hamajima, T. Kiyoshi, H. Kumakura, S. Hanai, K. Koyanagi, M. Ono, "20 T Compact Superconducting Outsert Employing Y123 Coated Conductors for a 45 T Hybrid Magnet", *IEEE Transactions on Applied Superconductivity*, Vol.19, N0.2, 1592-1595, 2009
112. K. Koyanagi, M. Ono, S. Hanai, K. Watanabe, S. Awaji, T. Hamajima, T. Kiyoshi, H. Kumakura, "Design of a 30 T Superconducting Magnet Using a Coated Conductor Insert", *IEEE Transactions on Applied Superconductivity*, Vol.19, N0.2, 1617-1620, 2009
113. T. Hamajima, N. Hu, N. Ozcivan, S. Soeda, T. Yagai, M. Tsuda, "Balanced Three-Phase Distributions of Tri-Axial Cable for Transmission Line", *IEEE Transactions on Applied Superconductivity*, Vol.19, N0.2, 1748-1751, 2009

114. M. Tsuda, K. Tamashiro, S. Sasaki, T. Yagai, T. Hamajima, T. Yamada, K. Yasui, "Vibration Transmission Characteristics Against Vertical Vibration in Magnetic Levitation Type HTS Seismic/Vibration Isolation Device", IEEE Transactions on Applied Superconductivity, Vol.19, N0.2, 2249-2252, 2009
115. T. Nakayama, T. Yagai, M. Tsuda, T. Hamajima, "Micro Power Grid System With SMES and Superconducting Cable Modules Cooled by Liquid Hydrogen", IEEE Transactions on Applied Superconductivity, Vol.19, N0.2, 2062-2065, 2009
116. T. Yagai, Y. Shibata, J. Ohmura, M. Tsuda, T. Hamajima, Y. Nunoya, K. Okuno, K. Takahata, "Irregular Flux Linkage for Coupling Current Loops in Different Type CIC Conductors", IEEE Transactions on Applied Superconductivity, Vol.19, N0.2, 2387 ? 2390, 2009
117. A. Komori, T. Hamajima, et.al., "Development of net-current free heliotron plasmas in the Large Helical Device", Nuclear Fusion, 49 (2009) 104015 (8pp)
118. 濱島高太郎, 津田理, 谷貝剛, 高畑一也, 今川信作, 「同軸多層 Cable-in-Conduit 導体内の電流分布を考慮した基本設計」, 電気学会論文誌 B, 129巻, 11号, pp.1299-1304, 2009
119. Tsuyoshi Yagai, Yasuyuki Shibata, Jun Ohmura, Makoto Tsuda, Takataro Hamajima, Yoshihiko Nunoya, Kiyoshi Okuno, Kazuya Takahata, "Flux linkage areas of coupling current loops for different shape cable-in-conduit conductor", Cryogenics 50 (2010) 200-203
120. 中山知紀, 谷貝剛, 津田理, 濱島高太郎, 「カルマンフィルタ予測による変動電力補償用 SMES の容量最適化の検討」, 低温工学, Vol.45, No.3, pp.99-106, 2010
121. T. Hamajima, S. Teshima, Y. Shibata, T. Yagai, M. Tsuda, K. Takahata, S. Imagawa and T. Mito, "Conceptual Design of Coaxial Multi-Layer Type CIC for SC Magnet of FFHR", IEEE Transactions on Applied Superconductivity, Vol.20, N0.3, 560-563, 2010
122. S. Sasaki, K. Shimada, T. Yagai, M. Tsuda, T. Hamajima, N. Kawai and K. Yasui, "Suitable Shape and Arrangement of HTS Bulk and Permanent Magnet ofr Improving Levitation Force in a Magnetic Levitation Type Superconducting Seismic Isolation Device", IEEE Transactions on Applied Superconductivity, Vol.20, N0.3, 985-988, 2010

123. Y. Cai, S. Okuda, T. Odake, T. Yagai, M. Tsuda, and T. Hamajima, "Study on Three-Phase Superconducting Fault Current Limiter", IEEE Transactions on Applied Superconductivity, Vol.20, NO.3, 1127-1130, 2010
124. M. Tsuda, T. Yagai, and T. Hamajima, "Suitable Method for Increasing Current Carrying Capacity of HTS Toroidal Coils for SMES and DC Reactor", IEEE Transactions on Applied Superconductivity, Vol.20, NO.3, 1365-1368, 2010
125. N. Hu, M. Toda, A. N. Ozcivan, T. Yagai, M. Tsuda, and T. Hamajima, "Fault Current Analysis in a Tri-Axial HTS Cable", IEEE Transactions on Applied Superconductivity, Vol.20, NO.3, 1288-1291, 2010
126. 後村直紀, 千葉悠太, 津田理, 濱島高太郎, 式町浩二, 平野直樹, 長屋重夫, 「SMES 用ダブルパンケーキに用いる多重 HTS テープ導体の電流分布解析」, 低温工学, Vol.45, No9, pp.417-423, 2010
127. N. Hu, M. Toda, A. N. Ozcivan, T. Yagai, M. Tsuda, T. Hamajima, "Design of HTS tri-axial cable in steady-state operation", Physica C, 470 (2010) 1584-1587
128. M. Ishizuka, T. Hamajima, T. Itou, J. Sakuraba, G. Nishijima, S. Awaji, K. Watanabe, "Thermal properties of a large-bore cryosooled 10 T superconducting magnet for a hybrid magnet", Physica C, 470 (2010) 1745-1748
129. S. Sasaki, K. Shimada, T. Yagai, M. Tsuda, T. Hamajima, N. Kawai, K. Yasui, "Stationary levitation and vibration transmission characteristic in a superconducting seismic isolation device with a permanent magnet system and a copper plate", Physica C, 470 (2010) 1791-1794
130. M. Ishizuka, T. Hamajima, T. Itou, J. Sakuraba, G. Nishijima, S. Awaji, K. Watanabe, "Thermal analysis of the cryocooled superconducting magnet for the liquid helium-free hybrid magnet", Physica C, 470 (2010) S1027-S1029
131. T. Hamajima, N. Atomura, Y. Chiba, T. Yagai, M. Tsuda, K. Shikimachi, N. Hirano, S. Nagaya, "Analysis of Current Distribution in Multi-Laminated HTS Tape Conductor for Double Pancake Coil of SMES", IEEE Transactions on Applied Superconductivity, Vol. 21, No. 3, 1371-1374, 2011
132. M. Tsuda, T. Hamajima, M. Furuse, S. Fuchino, N. Harada, K. Ueda, T. Nakajima, K. Takenaka, "Transport Characteristics and AC Losses in YBCO Toroidal Coils for DC Reactor With Harmonic Current of Three-Phase Converter", IEEE Transactions on Applied Superconductivity, Vol. 21, No. 3, 2406-2409, 2011

133. S. Sasaki, K. Shimada, M. Tsuda, T. Hamajima, N. Kawai, K. Yasui, "Suitable Structure of PM and Copper Plate Systems for Reducing Vibration Transmission and Improving Damping Effect in a Superconducting Seismic Isolation Device", IEEE Transactions on Applied Superconductivity, Vol. 21, No. 3, 2233-2236, 2011
134. A. N. Ozcivan, M. Toda, N. Hu, K. Hoshino, T. Yagai, M. Tsuda and T. Hamajima, "AC Loss of a Multi-Layer per Phase Tri-Axial HTS Cable with Balanced Current Distribution", Journal of Superconductivity and Novel Magnetism, 24(2011) 975-980
135. M. Tsuda and T. Hamajima, "Current Distribution in YBCO Coated Conductors of Toroidal Coil Composed of Multiple Double Pancake Coils", Journal of Superconductivity and Novel Magnetism, 24(2011) 999-1006
136. 中澤忍, 手島翔太郎, 荒井大地, 宮城大輔, 津田理, 濱島高太郎, 谷貝剛, 布谷嘉彦, 小泉徳潔, 高畑一也, 尾花哲浩, 「ケーブル・イン・コンジット 導体ジョイントにおける超電導素線と銅スリーブ間の接触素線数と接触長分布に関する解析」, 低温工学, Vol.46, No.8 (2011) 474-480

IV. 国際会議論文

1. T. Hamajima, M. Yamaguchi and Y. Sawada, "Stability and Field Analysis of Superconducting Toroidal Coil," Proceedings of 8th Symposium on Engineering Problems of Fusion Research, Vol.4, pp.1779-1783, 1979
2. T.Ando, Y.Takahashi, M.Nishi, Y.Sanada, S.Shimamoto, K.Yasukochi, T.Hamajima, M.Yamaguchi, O.Osaki, S.Murase, T.Uchida and H.Ichikawa, "Coil Performance Test of Nb3Sn Conductor to be used in the Advanced Cluster Test Facility," Proceedings of 9th Symposium on Engineering Problems of Fusion Research, Vol.1, pp.320-323, 1981
3. H.Tsuji, Y.Takahashi, K.Okuno, L.Dresner, E.Tada, T.Ando, R.S.Kensley, T.Ogasawara, K.Kuroda, T.Sato, T.Hamajima, S.Shimamoto and K.Yasukochi, "Large-Current Conductor Development for Superconducting Poloidal Coils," Proceedings of 9th Symposium on Engineering Problems of Fusion Research, Vol.2, pp.2035-2038, 1981
4. H.Ohguma, N.Tanji, T.Hamajima and Y.Wachi, "Development of the Experimental Apparatus to Study Internally Cooled Superconductors Property," 9th International Cryogenic Engineering Conference, pp.89-92, 1982

5. S.Itoh, T.Hamajima, Y.Wachi, A.Miura, M.Naganuma, N.Fujiwara, M.Yamaguchi, H.Ohguma, H.Shiraki, S.Murase and H.Ichikawa, "Development of a Forced Cooled D-Shaped Superconducting Coil," 8th International Conference on Magnet Technology, pp.157-161, 1983
6. M.Shimizu, Y.Tanabe, T.Yoshioka, K.Takeda, T.Hamajima, N.Miki, Y.Nakayama, M.Udo, N.Takeda, H.Miyazaki, K.Kamemura and M.Yamamoto, "Feasibility Study of a 10-GWh Toroidal Superconductive Magnetic Energy Storage System 1. System Design," 8th International Conference on Magnet Technology, pp.581-585, 1983
7. M.Shimizu, T.Yoshioka, Y.Morita, Y.Tanabe, T.Hamajima, N.Fujiwara, N.Miki, M.Yamaguchi, T.Horiuchi, N.Takeda, H.Miyazaki and K.Kamemura, "Feasibility Study of a 10-GWh Toroidal Superconductive Magnetic Energy Storage System 1. Conceptual Design of Coil System," 8th International Conference on Magnet Technology, pp.587-590, 1983
8. K.Noto, K.Watanabe, Y.Muto, M.Yamaguchi, T.Hamajima, O.Osaki, H.Maeda and Y.Sato, "The 12 T Superconducting Coil for the 30 T Hybrid Magnet," 10th International Cryogenic Engineering Conference, pp.165-168, 1984
9. M.Yamaguchi, T.Hamajima, H.Okuma, H.Ichikawa, A.Miura and Y.Sawada, "Development of a 12 T Forced-Cooling Toroidal Field Coil," 10th International Cryogenic Engineering Conference, pp.169-172, 1984
10. M.Yamamoto, M.Yamaguchi, N.Fujiwara, T.Hamajima and T.Komukai, "A Study on Power Transmission System with Superconducting Devices," 10th International Cryogenic Engineering Conference, pp.637-640, 1984
11. S.Murase, K.Koizumi, Y.Sumiyoshi, O.Osaki, T.Hamajima, Y.Sato, H.Ogiwara, K.Noto, K.Watanabe and Y.Muto, "Titanium Bronze Processed Nb₃Sn Conductor performance of 12 T Superconducting Magnet for 30 T Hybrid Magnet," 10th International Cryogenic Engineering Conference, pp.704-707, 1984
12. D.Ito, I.Takano, T.Hamajima, H.Tsuchidate, M.Fujiwara and H.Ikegami, "Superconducting Coil Instability due to AC Losses as Simulated Heat Load," 9th International Conference on Magnet Technology, pp.517-519, 1985
13. K.Nakanishi, T.Hamajima and M.Shimada, "Development of a Forced-Cooled Superconducting coil," 14th Symposium on Fusion Technology, Vol.2, pp.1707-1712, 1986

14. T.Hamajima, M.Shimada, A.Hatayama and Y.Sawada, "Eddy current formulation using BEM," The International Workshop for Eddy Current Code Comparison, pp.263-270, 1986
15. Y.Sanada, T.Hamajima, M.Shibui, M.Naganuma, M.Shimada, O.Osaki, T.Fujioka, M.Nishi, H.Tsuji, H.Nakajima, T.Ando and S.Shimamoto, "Development of a Forced-Cooling Cable-in-Conduit Superconducting Coil (DPC-TJ)," 12th International Cryogenic Engineering Conference, pp.789-793, 1988
16. T.Hamajima, M.Shimada, M.Ono, M.Yamaguchi, D.Itoh, T.Fujioka, K.Funaki, K.Tasaki, M.Iwakuma, M.Takeo, K.Yamafuji, T.Kumano and E.Suzuki, "Development of kA-Class Superconducting Cables for AC USE : (I) Design and Fabrication," 11th International Conference on Magnet Technology , Vol.1, pp.610-614, 1989
17. K.Funaki, K.Tasaki, M.Iwakuma, M.Takeo, K.Yamafuji, T.Hamajima, M.Shimada, M.Ono, M.Yamaguchi, D.Itoh, T.Fujioka, T.Kumano and E.Suzuki, "Development of kA-Class Superconducting Cables for AC USE : (II) Electromagnetic properties," 11th International Conference on Magnet Technology, Vol.1, pp.615-620, 1989
18. K.Inoue, T.Takeuchi, T.Kiyoshi, K.Itoh, H.Wada, H.Maeda, K.Nii, T.Fujioka, Y.Sumiyoshi, S.Hanai, T.Hamajima and H.Maeda, "Primary Design of 40 Tesla Class Hybrid Magnet System," 11th International Conference on Magnet Technology, Vol.1, pp.651-656, 1989
19. H.Mukai, O.Osaki, T.Hamajima, N.Naganuma, H.Shiraki, T.Fujioka, M.Nishi, Y.Takahashi, H.Tsuji, T.Ando and S.Shimamoto, "Fabrication of DPC-TJ, a Forced-Cooled Large Superconducting Coil," 11th International Conference on Magnet Technology, Vol.2, pp.852-855, 1989
20. M.Nishi, H.Tsuji, Y.Takahashi, H.Nakajima, T.Isono, T.Ando, S.Shimamoto, H.Mukai, T.Hamajima, H.Shiraki and T.Fujioka, "Results of Verification Tests and Coil Test of DPC-TJ," 11th International Conference on Magnet Technology, Vol.2, pp.856-861, 1989
21. K.Inoue, T.Takeuchi, K.Itoh, S.Murase, H.Shiraki, S.Nakayama, T.Fujioka, T.Hamajima and Y.Sumiyoshi, "High-Field Superconducting Properties of a 16T Class (Nb,Ti)3Sn Conductor by the Tube Method," 11th International Conference on Magnet Technology, Vol.2, pp.932-937, 1989

22. M.Shimada, M.Naganuma, T.Hamajima and Y.Sawada, "Development of a Forced-Cooled Superconducting Coil for Fusion Applications," 13th Symposium on Fusion Engineering, Vol.2 pp.1177-1180, 1989
23. K.Funaki, M.Nakashima, K.Tasaki, M.Iwakuma, M.Takeo, K.Yamafuji, T.Hamajima, M.Shimada, M.Ono, M.Yamaguchi, D.Itoh, T.Fujioka, T.Kumano and E.Suzuki, "AC Loss and Quench Analysis in KA-class Superconducting Cables for AC Use," 13th International Cryogenic Engineering Conference Cryogenics, Vol.30, No.9, pp.689-693, 1990
24. M.Nishi, K.Yamamoto, T.Sasaki, Y.Wadayama, A.Miyake, H.Hanawa, Y.Takaya, H.Tsuji, M.Ono, Y.Wachi, S.Hanawa, M.Shimada, T.Hamajima, T.Takano and T.Fujioka, "Effect of the Void-Fraction on the Property of the Nb3Sn Cable-in-Conduit Conductor," Advances in Cryogenic Engineering, Vol.40, pp.853-859, 1994
25. A. Iwabuchi, H. Funayama, T. Shimizu, M. Ono and T. Hamajima, "The effects of Coated Film on (NbTi)3Sn Wire on Friction and Electric Contact Resistance," 16th International Cryogenic Engineering Conference, pp.1727-1730, 1996
26. T.Hamajima, K.Kitamura and M.Arata, "Mechanical Property of Superconducting Magnet," Proceedings of Pacific Rim International Workshop on Applied Superconductivity 97, pp.93-103, 1997
27. N.Koizumi, Y.Takahashi, T.Kato, H.Tsuji, M.Ono, T.Hamajima and M.Takayasu, "Analysis of the Current Imbalance in a Large CICC Consisting of Chrome Plated Strands," 15th International Conference on Magnet Technology, Vol.1, pp.453-456, 1997
28. M.Ono, T.Hamajima, M.Hiragishi, Y.Wachi, H.Maeda and T.Fujioka, "The Influence of Electrical & Mechanical Properties of Co-axial Cable on Coupling Losses and Stability," 15th International Conference on Magnet Technology, Vol.1, pp.457-460, 1997
29. Y.Sato, J.Kondoh, R.Shimada, M.Kyouto, S.Hanai and T.Hamajima, "Experiment of the Force-balanced coil for Superconducting magnetic energy storage," 15th International Conference on Magnet Technology, Vol.1, pp.542-546, 1997
30. Y.Sato, S.Nomura, T.Osaki, J.Kondoh, T.Shimada, S.Hanai and T.Hamajima, "Optimization of a Force-balanced Coil for SMES," 15th International Conference on Magnet Technology, Vol.1, pp.547-550, 1997

31. T. Hamajima, S. Hanai, Y. Wachi, M. Kyoto, M. Shimada, M. Ono, K. Shimada, L. Kushida, M. Tezuka, N. Martovetsky, J. Zbasnik, J. Moller, Y. Takahashi, K. Matsui, T. Isono, M. Yamamoto, I. Takano, T. Himeno, N. Hirano, K. Shinoda and T. Satow, "AC loss performance of the 100kWh SMES model coil," 16th International Conference on Magnet Technology, September 26 - October 1, 1999, Tallahassee, Florida, USA
32. N. Hirano, K. Shinoda, S. Hanai, T. Hamajima, M. Kyoto, N. Martovetsky, J. Zbasnik, M. Yamamoto, T. Himeno, I. Takano and T. Satow, "AC loss measurement of the 100 kWh SMES model coil," EUCAS 17B-2, 14-17 September, 1999
33. T. Hamajima, M. Yoshida, H. Shimamura, N. Harada, M. Tsuda, S. Hanai, T. Satow, "A mechanism causing an additional AC loss in a large CICC Coil," Applied Superconductivity Conference, September 18-23, 2000, VIRGINIA BEACH, VA
34. A.K.M.Alamgir, Y.Itoh, M.Tsuda, N.Harada, T.Hamajima, M.Ono and H.Takano, "Homogeneous current distribution experiment of a multilayer coaxial Superconductor," The international Workshop on Critical Currents and Applications of HTS, pp.56-57, Oct. 17-19, 2000 (Fukuoka, Japan)
35. T. Hamajima, N. Harada, T. Satow, H. Shimamura, K. Takahata and M. Tsuda, "Long time constants of irregular AC coupling losses in a Large superconducting coil," 17th International Conference on Magnet Technology, September 24 - 28, 2001, Geneva
36. T. Hamajima, Y. Kakusho, K. Hoashi, M. Tsuda, N. Harada, H. Yamada, K. takahata and T. Satow, "Irregular AC Losses with Long Time Constants in Large Cable-in-Conduit conductor," Applied Superconductivity Conference, August 4 ? 9, 2002, Houston, Texas, USA
37. M. Tsuda, Y. Kakusho, K. Hoashi, N. Harada, T. Hamajima, K. Takahata, and T. Satow, "Influence of contact condition between strands in CIC conductor on coupling ac losses with long time constant," EUCAS2003, 2-17, 15-18 September, 2003
38. T.Hamajima, J. F. He, M. Tsuda, N. Harada, T. Yazawa and T. Kuriyama, "Current Distributions in Multi-Laminated HTS Tape Conductors for Solenoid" , The 18th International conference on Magnet Technology, Morioka, Japan, Oct20-24, 2003

39. T. Hamajima, T. Yagai, N. Harada, M. Tsuda, H. Hayashi and T. Ezaki, "Scaling Law of Fringe Fields as Functions of Stored Energy and Maximum Magnetic Field for SMES Configurations," The 18th International conference on Magnet Technology, Morioka, Japan, Oct20-24, 2003
40. T. Hamajima, "Robust Electric Energy Network System using Superconductivity and Liquid Hydrogen," IUPAP(International Union of Pure and Applied Physics) Workshop on Energy, 13 May, 2004 平成16年5月13日 (木) (<http://j-parc.jp/Transmutation/ws/energyws-top.html> に掲載)
41. T. Hamajima, T. Yagai, M. Tsuda, and N. Harada, "Current Distribution Analysis in Tri-Axial HTS Cable Considering Three Phases," Applied Superconductivity Conference, October 3-8, 2004, Jacksonville, FL U.S.A.
42. T. Hamajima, T. Yagai and M. Tsuda, "Analysis of Balanced Three-Phase Current Distributions in a Tri-Axial Cable," 19th International conference on Magnet Technology, Genova, Italy, Sep19-23, 2005
43. T. Hamajima, M. Tsuda, T. Yagai, S. Monma, H. Satoh and K. Shimoyama, "Analysis of AC Losses in a Tri-Axial Superconducting Cable," Applied Superconductivity Conference, Aug 27 ? Sep 1, 2006, Seattle, WA U.S.A.
44. K. Niiyama, T. Yagai, M. Tsuda, T. Hamajima, "Design Study of Hybrid Power System Composed of SMES and Flywheel MG", The 20th International conference on Magnet Technology, Philadelphia, USA, August 27-31, 2007
45. T. Hamajima, A. Nuri Ozcivan, M. Tsuda, T. Yagai, K. Shimoyama, K. Aoyagi, S. Soeda, "AC Losses of a Tri-axial Superconducting Cable with Balanced Three-phase Current Distributions", EUCAS2007, 503, Brussels, Belgium, 16-20 September 2007
46. K. Niiyama¹, T. Yagai¹, M. Tsuda¹ and T. Hamajima, "Evaluation and Simulation of Energy Storage Systems Applied for Large Pulsed Load", Proceedings of International Symposium on EcoTopia Science 2007, pp.561-564, Nagoya University, Nagoya, Japan, 23-25 November, 2007
47. N. Ozcivan¹, K. Shimoyama, S. Soeda, T. Yagai, M. Tsuda and T. Hamajima, "Analysis of the Balanced Current Distribution in a Tri-axial HTS Cable", Proceedings of International Symposium on EcoTopia Science 2007, pp.553-556, Nagoya University, Nagoya, Japan, 23-25 November, 2007

48. N. Ozcivan, K. Shimoyama, S. Soeda, N. Hu, T. Yagai, M. Tsuda and T. Hamajima, "AC loss of a tri-axial HTS cable composed of 2 layers per phase with balanced and homogeneous current distribution", ICEC 22 ? ICMC 2008, Soul, Korea, 21-25 July, 2008
49. M. Tsuda, T. Kawasaki, T. Yagai, T. Hamajima, T. Yamada, K. Yasui, "Vibration isolation characteristics in magnetic levitation type seismic isolation device composed of HTS bulk and permanent magnet", ICEC 22 ? ICMC 2008, Soul, Korea, 21-25 July, 2008
50. K. Watanabe, G. Nishijima, S. Awaji, T. Hamajima, T. Kiyoshi, H. Kumakura, K. Koyanagi, S. Hanai, M. Ono, "Design of a 30 T superconducting Magnet with a 52 mm Room Temperature Bore Employing Y124 High Temperature superconductors", ICEC 22 ? ICMC 2008, Soul, Korea, 21-25 July, 2008
51. T. Hamajima, N. Hu, N. Ozcivan, K. Shimoyama, S. Soeda, T. Yagai, M. Tsuda, "Balanced Three-phase Distributions of Tri-axial Cable for Transmission Line", Applied Superconductivity Conference, Aug 18-22, 2008, Chicago, IL U.S.A.
52. N. Ozcivan¹, S. Soeda, N. Hu, T. Yagai, M. Tsuda and T. Hamajima, "AC Loss investigation of a tri-axial HTS cable with balanced current distribution", Proceedings of The 1st Student Organizing International Mini-Conference on Information Electronics Systems (SOIM-GCOE08), p213, Sendai Excel Hotel Tokyu, Sendai, October 16-17, 2008
53. N. HU, S. SOEDA, M. TODA, A. N. OZCIVAN, T. YAGAI, M. TSUDA, T. HAMAJIMA, "Optimization of AC Losses in Tri-axial HTS Cable with Balanced Three-phase Current Distribution", 9th European Conference on Applied Superconductivity, Dresden, Germany, September 13 - 17, 2009
54. T. Hamajima, S. Teshima, Y. Shibata, T. Yagai, M. Tsuda, K. Takahata, S. Imagawa, T. Mito, "Conceptual Design of Coaxial Multi-Layer Type CIC for SC Magnet of FFHR", The 21th International conference on Magnet Technology, 4BP-24, Hefei, China, 22 October, 2009
55. T. Yagai, S. Teshima, Y. Shibata, M. Tsuda, T. Hamajima, Y. Nunoya, K. Okuno, K. Takahata, "Investigation of the Effect of Twist Pitches and Strand Displacement on Forming Coupling Current Loops in Large Scale CIC Conductor", The 21th International conference on Magnet Technology, 4BP-07, Hefei, China, 22 October, 2009

56. N. Hu, M. Toda, N. Ozcivan¹, T. Yagai, M. Tsuda and T. Hamajima, "AC Loss Minimization design of HTS Tri-Axial Cable", Proceedings of The 2nd Student Organizing International Mini-Conference on Information Electronics Systems (SOIM-GCOE09), p158, Sendai Excel Hotel Tokyu, Sendai, October 27-28, 2009
57. A N. OZCIVAN, M. TODA, N. HU, K. HOSHINO, T. YAGAI, M. TSUDA, T. HAMAJIMA, "AC Loss of a Multi-layer per Phase Tri-axial HTS Cable with Balanced Current Distribution", Inrenationa Conference of Superconductivity and Magnetism (ICSM2010), Antalya, Turkey, 25-30 April, 2010
58. M. Tsuda and T. Hamajima, "Current Distribution in YBCO Coated Conductors of Toroidal Coil composed of Multiple Double Pancakes Coils", Inrenationa Conference of Superconductivity and Magnetism (ICSM2010), Antalya, Turkey, 25-30 April, 2010
59. Takataro Hamajima, Naoki Atomura, Yuta Chiba, Tsuyoshi Yagai, Makoto Tsuda, Koji Shikimachi, Naoki Hirano and Shigeo Nagaya, "Analysis of Current Distribution in Multi-laminated HTS Tape Conductor for Double Pancake Coil of SMES", Applied Superconductivity Conference, Aug 1-6, 2010, Washington, DC, U.S.A.
60. S. Sasaki, K. Shimada, M. Tsuda, T. Hamajima, N. Kawai, K. Yasui, "Vibration Characteristics in a Superconducting Seismic Isolation Device", Proceedings of The 3rd Student Organizing International Mini-Conference on Information Electronics Systems (SOIM-GCOE10), pp35-36, Sendai Excel Hotel Tokyu, Sendai, October 19-20, 2010
61. N. Hu, M. Toda, T. Watanabe, N. Ozcivan, M. Tsuda, T. Hamajima, "Recovery Time Analysis in a Tri-Axial HTS Cable", Proceedings of The 3rd Student Organizing International Mini-Conference on Information Electronics Systems (SOIM-GCOE10), pp. 37-38, Sendai Excel Hotel Tokyu, Sendai, October 19-20, 2010
62. S. Teshima, S. Nakazawa, M. Tsuda, T. Hamajima, T. Yagai, Y. Nunoya, K. Okuno, K. Takahata, "Analysis of Strand Positions in CIC Conductor", SAP-44, 23rd International Symposium on Superconductivity (ISS2010), November 1 - 3, 2010, EPOCHAL TSUKUBA, Tsukuba, Japan

V. 解説

1. 山口貢, 浜島高太郎, 「大型超伝導マグネットの開発と応用」, 応用物理, Vol.52, No.9, pp.762-767, 1983
2. 電気学会大型超伝導マグネット調査専門委員会, 「超伝導エネルギー装置の開発動向 (Ⅱ部)」第166号, pp.25-27, 1984 (昭和59年5月)
3. 電気学会大型超伝導マグネット調査専門委員会, 「超伝導電力機器の開発動向 (Ⅱ部)」第192号, pp.79-93, 1985 (昭和60年7月)
4. 浜島高太郎, 山口貢, 「超伝導マグネット製造技術の現状と課題－交通輸送機関用マグネット」平成4年電気学会全国大会, シンポジウム, pS.12-11-14, 1992
5. 沢田芳夫, 浜島高太郎, 「超伝導材料の開発と電気機器への適用」日本機械学会誌, Vol.96, No.893, pp.325-328, 1993
6. 電気学会超伝導リニアドライブ適用性調査専門委員会, 「超伝導リニアドライブ技術の現状」第472号, pp.61-71, 1993 (平成5年年11月)
7. 電気学会超伝導リニアドライブ応用技術調査専門委員会, 「超伝導リニアドライブ応用技術の展望と課題」第582号, pp.32-36, 1996 (平成8年4月)
8. 電気学会交流超伝導技術調査専門委員会, 「交流超伝導技術開発の動向」第599号, pp.93-96, 1996 (平成8年8月)
9. 山口貢, 浜島高太郎, 「超伝導応用電力機器開発の現状と今後の開発戦略－産業用機器」平成10年電気学会全国大会, シンポジウム, pS.27-13-16, 1998
10. 山口貢, 浜島高太郎, 「産業界で活躍する超伝導」電気学会誌, Vol.119, No.8/9, pp.527-530, 1999 (平成11年8/9月)
11. 電気学会交流超伝導マグネット技術調査専門委員会, 「交流超伝導マグネット技術の現状と課題」第786号, pp.48-49, pp.65-70, 2000 (平成12年6月)
12. 電気学会電力系統における超伝導機器のシステム特性調査専門委員会, 「電力系統における超伝導機器－ハードウェアとソフトウェアの開発状況－」第800号, pp.62-64, 2000 (平成12年8月10日発行)
13. 浜島高太郎, 山口貢, 「医療機器への応用」平成13年電気学会全国大会 シンポジウム, 5-S18-2, p2195, 2001

14. 電気学会超電導リニアドライブ実証技術調査専門委員会,「超電導リニアドライブ実証技術の開発動向」第835号, 第2章, pp12-20, 2001(平成13年4月20日発行)
15. 濱島高太郎,「超電導エネルギー貯蔵システムの実際と開発動向」, ペトロテック(石油学会), July 2001, Vol.24, No.7, pp532-536(平成13年7月)
16. 濱島高太郎,「CIC 導体・コイルの交流損失」2001年超電導応用研究会シンポジウム講演論文集, 低温工学, pp.1-5, 2001, Vol.8(平成13年7月)
17. 電気学会交流超電導機器技術調査専門委員会,「国内外における交流超電導機器技術の現状と動向」第897号, pp.28-32, 2002(平成14年9月)
18. 電気学会超電導電力機器の仕様と特性調査専門委員会,「超電導電力機器の仕様と特性」第946号, 2003(平成15年11月)
19. 濱島高太郎,「大型超電導マグネット技術」低温工学協会 東北・北海道支部 第9回超伝導・低温若手セミナー, pp.41-71, 2004年8月25-27日
20. 濱島高太郎:「液体水素と超電導機器のシナジー効果による電力システムの高信頼化」低温工学協会, 2004年度第7回冷凍部会, 2004年12月20日
21. 電気学会交流超電導技術適用性調査専門委員会,「交流超電導技術の適用性」第994号, 2005(平成17年1月)
22. 濱島高太郎:「液体水素は超電導機器の冷媒として使えるでしょうか, また, 安全性に問題はないでしょうか?」超電導 WEB21, 2005年1月号, p19
23. 濱島高太郎:「液体水素・超電導と燃料電池のシナジー効果」, 低温工学協会, 超電導応用研究会, 2005年4月8日
24. 濱島高太郎:「液体水素冷却超電導コイルの検討」2005年度第4回低温工学協会関西支部講演会, 平成18年1月13日 大阪市立大学文化交流センター
25. 電気学会 電力系統における超電導電力機器特性調査専門委員会:「電力系統における超電導電力機器特性」第1088号, 2007(平成19年6月)
26. 濱島高太郎:「液体水素と超電導機器を複合した超電導マイクログリッドシステム」, FSST NEWS, No116(2008)5-7, 超伝導科学技術研究会
27. 平野直樹, 濱島高太郎:「超電導応用機器の実用化への期待」, 電学誌, 128巻6号, pp.353-354, 2008年

28. 電気学会 超電導応用機器設計基礎技術調査専門委員会：「超電導応用機器設計基礎技術」第1120号，2008（平成20年 6 月）
29. 濱島高太郎，津田理：「超電導技術の省エネルギー技術戦略」，電学誌，128 卷 8 号，pp.536-539，2008年
30. 濱島高太郎：「液体水素冷熱を活用する超電導マイクログリッド構想」，超電導 Web21 6 月号，p10-11，2009